APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SE	CTION I: BACKGROUND INFORMATION
A.	REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): August 2, 2013
B.	DISTRICT OFFICE, FILE NAME, AND NUMBER: Chicago District, Mission Hills Golf Course, LRC-2013-560
C.	PROJECT LOCATION AND BACKGROUND INFORMATION: Northeast Corner of Sanders Road and Techny Road State: Illinois County/parish/borough: Cook City: Northfield Township Center coordinates of site (lat/long in degree decimal format): Lat. 42.118546°N, Long87.869906° W. Universal Transverse Mercator: NAD 83 Name of nearest waterbody: Des Plaines River Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Des Plaines River Name of watershed or Hydrologic Unit Code (HUC): Des Plaines (07120004) Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request. Check if other sites (e.g., offsite mitigation sites, disposal sites, etc) are associated with this action and are recorded on a different JD form.
D.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): Office (Desk) Determination. Date: 06 Nov 2013 Field Determination. Date(s): 01 Nov 2013
	2
	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
	ere Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the iew area. [Required] Waters subject to the ebb and flow of the tide. Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain: Defined in People of State of Ill. ex rel. Scott v. Hoffman, No. P-CIV-76-45, slip op. at 7 (S.D.Ill. Jan. 20, 1979).
В.	CWA SECTION 404 DETERMINATION OF JURISDICTION.
The	ere Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]
	1. Waters of the U.S.
	a. Indicate presence of waters of U.S. in review area (check all that apply): TNWs, including territorial seas Wetlands adjacent to TNWs Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs Non-RPWs that flow directly or indirectly into TNWs Wetlands directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs Impoundments of jurisdictional waters Isolated (interstate or intrastate) waters, including isolated wetlands
	b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: linear feet: width (ft) and/or acres. Wetlands: 0.05 acres.
	c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known):
	 Non-regulated waters/wetlands (check if applicable):³ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional Explain:

Boxes checked below shall be supported by completing the appropriate sections in Section III below.
 For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
 Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW: Pick List.

Summarize rationale supporting determination: As defined in People of State of Ill. ex rel. Scott v. Hoffman, No. P-CIV-76-45, slip op. at 7 (S.D.Ill. Jan. 20, 1979).

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under Rapanos have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size: 934048 square miles Drainage area: 836673 square miles Average annual rainfall: 36.27 inches Average annual snowfall: 38.0 inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

☐ Tributary flows directly into TNW.

Tributary flows through Pick List tributaries before entering TNW.

Project waters are 1-2 river miles from TNW.

Project waters are 1 (or less) river miles from RPW.

Project waters are 1-2 aerial (straight) miles from TNW.

Project waters are 1 (or less) aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW⁵: Wetland is drained by ditch leading to tributary which flows into the Des Plaines River. Tributary stream order, if known: 1.

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

(b)	General Tributary Tributary is:	Characteri Natu		that apply):			1				
	Tributary is.		aı cial (man-made). Explain:					3		
			pulated (man-a		olain:						
	Tributary propert Average widt Average dept Average side	h: 3 feet h: 0.5 feet	- Carlon	oank (estima	ite):		×				
	, it orage orac	Stopes. Sa		70				•			
	Primary tributary s Silts Cobbles Bedrock Other. Ex		Sands Gravel	eck all that a		[Concrete Muck				
	Tributary condition Presence of run/rif Tributary geometry Tributary gradient	île/pool co y: Meand o	omplexes. Expl ering	ain: Absent.		anks]. E	xplain: Tri	outary is s	table.		
(c)	Flow:										
(0)	Tributary provides Estimate average r	number of v regime: I	flow events in r Ditch flows duri	eview area/y	ear: 2			stland to tr	ibutary on v	west side	of I- 2 94
	Surface flow is: D	iscrete an	Leonfined. Ch	aracteristics	: Roac	lside dito	h connecti	on.			
	Subsurface flow:			gs: .	5						
	clear, chang shelv veget leaf li sedim water other	eanks (check all natural lin ges in the c ing ation matte itter disturbent deposi staining (list): uous OHW	indicators that a ne impressed on haracter of soil ed down, bent, of bed or washed a trion	the bank	de. the second score mu ab.	struction e presence diment so our ultiple ob rupt char	eserved or plant	al vegetat line predicted f	low events		
	oil or fine s	le Line ind scum line hell or deb	VM were used to dicated by: along shore objects deposits (for gs/characteristics)	iects [reshore) [fean H surv phys	ligh Wat ey to ava sical mar	er Mark ind ailable datu kings;	licated by m;		at apply)	
Cha	emical Characteris tracterize tributary (Explain: Water is htify specific polluta	e.g., water mostly cle	ar.			m; water	quality; ge	neral wate	ershed chara	ecteristics.	, etc.).

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

Tbid.

	(IV)	B10	logical Characteristics. Channel supports (check all that apply):
		\vdash	Riparian corridor. Characteristics (type, average width):
			Wetland fringe. Characteristics: .
			Habitat for:
			Federally Listed species. Explain findings:
			Fish/spawn areas. Explain findings:
			Other environmentally-sensitive species. Explain findings:
			Aquatic/wildlife diversity. Explain findings:
2.	Ch	ract	teristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
4.	Car	ıı acı	in the state of wedards adjacent to non-11/1/1 that now directly of indirectly life 11/1/1
	723	70.1	
	(i)		vsical Characteristics:
		(a)	General Wetland Characteristics:
			Properties:
			Wetland size: 0.05 acres
			Wetland type. Explain: Emergent.
			Wetland quality. Explain: Low.
			Project wetlands cross or serve as state boundaries. Explain:
			Troject wettands cross of serve as state boundaries. Explain.
		0.5	Canada Nama Dalada and American Nama
		(D)	General Flow Relationship with Non-TNW:
			Flow is: Intermittent flow. Explain: Flows during and after significant rain events.
			Surface flow is: Discrete and confined
			Characteristics: Road side ditch.
			Subsurface flow: Unknown. Explain findings: .
			Dye (or other) test performed:
			_ bye (or other) test performed.
		1.0	Wattend Adjanuary Defense rath New TNW
		(6)	Wetland Adjacency Determination with Non-TNW:
			Directly abutting
			Not directly abutting
			☐ Discrete wetland hydrologic connection. Explain:
			☐ Ecological connection. Explain:
			Separated by berm/barrier. Explain:
		(b)	Proximity (Relationship) to TNW
		(4)	Project wetlands are 1-2 river miles from TNW.
			Project waters are 1-2 aerial (straight) miles from TNW.
			Flow is from: Wetland to navigable waters.
			Estimate approximate location of wetland as within the 50 - 100-year floodplain.
	(ii)	Che	emical Characteristics:
		Cha	racterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed
			characteristics; etc.). Explain: Water is clear in wetland.
		Ider	ntify specific pollutants, if known:
	Gii	Die	logical Characteristics. Wetland supports (check all that apply):
	(m)	Die	
		H	Riparian buffer. Characteristics (type, average width):
		Щ	Vegetation type/percent cover. Explain:
			Habitat for:
			Federally Listed species. Explain findings:
			Fish/spawn areas. Explain findings:
			Other environmentally-sensitive species. Explain findings:
			Aquatic/wildlife diversity. Explain findings:
			_ / square main directly. 124pini manga.
2	CI.	wo - ¢	aviotics of all westlands adjacent to the tributeurs (if arm)
3.	Cna		eristics of all wetlands adjacent to the tributary (if any)
			wetland(s) being considered in the cumulative analysis: 1
		App	proximately (0.05) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Name/ID Directly abuts? (Y/N) Size (in acres) Name/ID Directly abuts? (Y/N) Size (in acres)

Wetland I Y 0.05

Summarize overall biological, chemical and physical functions being performed: Sediment and chemical filtration from golf course.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the Rapanos Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and
 other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: Wetland 1 (approx. 0.05 ac.) is adjacent and contiguous to a tributary of the Des Plaines River, which has relative permanent flow, and exhibits a surface water connection to a traditional navigable waterway. The tributary connection is visible in a 1970 aerial; and the connection is mostly piped now, but still present. Water flows across the entire golf course property via sheet flow, as well as a ditch line along the road that bisecs this wetland area and continues to a pipe under the road to the west. This surface water connection demonstrates the ability of the tributary to carry pollutants, flood waters, nutrients and organic carbon to the TNW. The adjacent wetlands have the ability to reduce the amount of pollutants and floodwaters reaching the TNW. The headwater wetland is receiving a percentage of it's water from groundwater and from runoff from the surrounding uplands before it flows into Des Plaines River. Wetlands such as these provide stormwater storage, habitat, sediment/toxicant retention and nutrient removal/transformation. The decrease of sedimentation, pollutants, flooding, nutrients and habitat provided by the subject wetland provides a positive effect to the downstream relatively permanent waters and traditional navigable waters. The wetland alone, and in combination with other area wetlands, significantly affect the chemical, physical and biological integrity of the Des Plaines River. Stormwater storage provided by the subject wetlands affect the frequency and extent of downstream flooding, decreasing flood peaks in the Des Plaines River, and in turn impacting navigation and downstream bank erosion and sedimentation. The sediment and pollutant/toxicant retention provided by the subject wetland has a direct positive effect on the Des Plaines River in regards to navigation and aquatic food webs that are not adapted to thrive in sediment-choked environments. These factors contribute to the finding of a significant nexus between the on-site wetland and the TNW.
- 3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

TH	(AT APPLY):
1.	TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area: TNWs: linear feet width (ft), Or, acres. Wetlands adjacent to TNWs: acres.
2.	RPWs that flow directly or indirectly into TNWs. Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:
	Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters:
3.	Non-RPWs ⁸ that flow directly or indirectly into TNWs. Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional waters within the review area (check all that apply): Tributary waters: 300 linear feet 1 width (ft). Other non-wetland waters: acres. Identify type(s) of waters:
4.	Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands. Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
	Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
	Provide acreage estimates for jurisdictional wetlands in the review area:
5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.
	Provide acreage estimates for jurisdictional wetlands in the review area: acres.
6.	Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs. Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional wetlands in the review area: 0.05 acres.
7.	As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional. Demonstrate that impoundment was created from "waters of the U.S.," or Demonstrate that water meets the criteria for one of the categories presented above (1-6), or Demonstrate that water is isolated with a nexus to commerce (see E below).

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL

 $^{^8 \}rm Sec$ Footnote # 3. 9 To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

E.	ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE,
	DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY
	SUCH WATERS (CHECK ALL THAT APPLY):10
	which are or could be used by interstate or foreign travelers for recreational or other purposes.
	from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
	which are or could be used for industrial purposes by industries in interstate commerce.
	Interstate isolated waters. Explain:
	Other factors. Explain:
	Identify water body and summarize rationale supporting determination:

Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

Pro	wide estimates for jurisdictional waters in the review area (check all that apply):
	Tributary waters: linear feet width (ft).
	Other non-wetland waters: acres.
	Identify type(s) of waters:
	Wetlands: acres.
17	NON HIDIODICTIONAL WATERS INCLUDING WETLANDS (CHECK ALL THAT ARRIVA
F.	NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):
	If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
	Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
	Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the
	"Migratory Bird Rule" (MBR).
	Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:
	Other: (explain, if not covered above):
	Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR
	factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional
	judgment (check all that apply):
	Non-wetland waters (i.e., rivers, streams): linear feet width (ft).
	Lakes/ponds: acres.
	Other non-wetland waters: acres. List type of aquatic resource:
	Wetlands: acres.
	Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such
	a finding is required for jurisdiction (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
	Lakes/ponds: acres.
	Other non-wetland waters: acres. List type of aquatic resource:
	Wetlands: acres.
SE	CTION IV: DATA SOURCES.
A.	SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked
	and requested, appropriately reference sources below):
	Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Christopher B. Burke Engineering, Ltd. Submittal.
	Data sheets prepared/submitted by or on behalf of the applicant/consultant. Office concurs with data sheets/delineation report.
	Office does not concur with data sheets/delineation report.
	Data shoots prepared by the Corps
	Data sheets prepared by the Corps: Corps paying ble waters' study.
	Corps navigable waters' study:
	 □ Corps navigable waters' study: □ U.S. Geological Survey Hydrologic Atlas: Park Ridge HA 85, 1964,
	 □ Corps navigable waters' study: □ U.S. Geological Survey Hydrologic Atlas: Park Ridge HA 85, 1964, □ USGS NHD data.
	 Corps navigable waters' study: U.S. Geological Survey Hydrologic Atlas: Park Ridge HA 85, 1964, USGS NHD data. USGS 8 and 12 digit HUC maps.
	 Corps navigable waters' study: U.S. Geological Survey Hydrologic Atlas: Park Ridge HA 85, 1964, □ USGS NHD data. □ USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name: Park Ridge 7.5", 1993, Pick List, Pick List,
	 □ Corps navigable waters' study: □ U.S. Geological Survey Hydrologic Atlas: Park Ridge HA 85, 1964, □ USGS NHD data. □ USGS 8 and 12 digit HUC maps. □ U.S. Geological Survey map(s). Cite scale & quad name: Park Ridge 7.5", 1993, Pick List, Pick List, Pick List, □ USDA Natural Resources Conservation Service Soil Survey. Citation: Soil Survey of DuPage and Part of Cook (1979).
	 □ Corps navigable waters' study: □ U.S. Geological Survey Hydrologic Atlas: Park Ridge HA 85, 1964, □ USGS NHD data. □ USGS 8 and 12 digit HUC maps. □ U.S. Geological Survey map(s). Cite scale & quad name: Park Ridge 7.5", 1993, Pick List, Pick List, Pick List, □ USDA Natural Resources Conservation Service Soil Survey. Citation: Soil Survey of DuPage and Part of Cook (1979). □ National wetlands inventory map(s). Cite name: Park Ridge,
	 □ Corps navigable waters' study: □ U.S. Geological Survey Hydrologic Atlas: Park Ridge HA 85, 1964, □ USGS NHD data. □ USGS 8 and 12 digit HUC maps. □ U.S. Geological Survey map(s). Cite scale & quad name: Park Ridge 7.5", 1993, Pick List, Pick List, Pick List, □ USDA Natural Resources Conservation Service Soil Survey. Citation: Soil Survey of DuPage and Part of Cook (1979).
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	 Corps navigable waters' study: U.S. Geological Survey Hydrologic Atlas: Park Ridge HA 85, 1964, USGS NHD data. USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name: Park Ridge 7.5", 1993, Pick List, Pick List, Pick List, USDA Natural Resources Conservation Service Soil Survey. Citation: Soil Survey of DuPage and Part of Cook (1979). National wetlands inventory map(s). Cite name: Park Ridge, State/Local wetland inventory map(s): Pick List, Pick List, FEMA/FIRM maps: 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929) Photographs: Aerial (Name & Date): 1970, 1975, 1994, 2008.
	Corps navigable waters' study: U.S. Geological Survey Hydrologic Atlas: Park Ridge HA 85, 1964, USGS NHD data. USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name: Park Ridge 7.5", 1993, Pick List, Pick List, Pick List, USDA Natural Resources Conservation Service Soil Survey. Citation: Soil Survey of DuPage and Part of Cook (1979). National wetlands inventory map(s). Cite name: Park Ridge, State/Local wetland inventory map(s): Pick List, Pick List, FEMA/FIRM maps: 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929) Photographs: Aerial (Name & Date): 1970, 1975, 1994, 2008. or ☐ Other (Name & Date):
	Corps navigable waters' study: U.S. Geological Survey Hydrologic Atlas: Park Ridge HA 85, 1964, USGS NHD data. USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name: Park Ridge 7.5", 1993, Pick List, Pick List, Pick List, USDA Natural Resources Conservation Service Soil Survey. Citation: Soil Survey of DuPage and Part of Cook (1979). National wetlands inventory map(s). Cite name: Park Ridge, State/Local wetland inventory map(s): Pick List, Pick List, FEMA/FIRM maps: 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929) Photographs: Aerial (Name & Date): 1970, 1975, 1994, 2008. or ☐ Other (Name & Date): Previous determination(s). File no. and date of response letter:
	 Corps navigable waters' study: U.S. Geological Survey Hydrologic Atlas: Park Ridge HA 85, 1964, USGS NHD data. USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name: Park Ridge 7.5", 1993, Pick List, Pick List, Pick List, USDA Natural Resources Conservation Service Soil Survey. Citation: Soil Survey of DuPage and Part of Cook (1979). National wetlands inventory map(s). Cite name: Park Ridge, State/Local wetland inventory map(s): Pick List, Pick List, FEMA/FIRM maps: 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929) Photographs: Aerial (Name & Date): 1970, 1975, 1994, 2008. or ☐ Other (Name & Date): Previous determination(s). File no. and date of response letter: Applicable/supporting case law: People of State of III. ex rel. Scott v. Hoffman, No. P-CIV-76-45, (S.D.III. Jan. 20, 1979)
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B. ADDITIONAL COMMENTS TO SUPPORT JD: The historic aerials show the surface water connection of this small wetland to the west and into the Des Plaines River. As the surrounding area was developed, some of the connection was moved and piped, but still remains, and shows the discrete hydrologic connection to the TNW.